=> fil reg

FILE 'REGISTRY' ENTERED AT 16:25:26 ON 24 MAY 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 MAY 2004 HIGHEST RN 685087-62-1 DICTIONARY FILE UPDATES: 23 MAY 2004 HIGHEST RN 685087-62-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

REP G1=(1-4) C NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L7 10 SEA FILE=REGISTRY SSS FUL L5

L8 4 SEA FILE=REGISTRY ABB=ON PLU=ON L7 AND (C20H21NO4S OR

C40H30N2O2S OR C19H19NO4S OR C20H21NO4S)

L9 6 SEA FILE=REGISTRY ABB=ON PLU=ON L7 NOT L8

=> d his

(FILE 'HOME' ENTERED AT 16:19:36 ON 24 MAY 2004) SET COST OFF

FILE 'REGISTRY' ENTERED AT 16:19:50 ON 24 MAY 2004

L1 STR
L2 1 S L1
L3 STR L1
L4 1 S L3

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Page 2
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STR L3
L5
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L6
             10 S L5 FUL
L7
                SAV L7 ZINNA716/A
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Г8
              6 S L7 NOT L8
Ь9
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              3 S L8
L11
L12
              1 S L11 AND L10
              2 S L11 NOT L12
L13
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              2 S L9
L14
L15
              2 S L8
              2 S L14 AND L15
L16
     FILE 'REGISTRY' ENTERED AT 16:25:26 ON 24 MAY 2004
=> d ide can tot 19
    ANSWER 1 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN
L9
     477728-08-8 REGISTRY
RN
     2,6-Piperidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)
CN
     3D CONCORD
FS
MF
     C18 H17 N O3 S
SR
     STN Files: CA, CAPLUS, USPAT2, USPATFULL
LC
DT.CA CAplus document type: Patent
       Roles from patents: BIOL (Biological study); PREP (Preparation); USES
RL.P
       (Uses)
Ph2CH-
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1: 138:14055 REFERENCE

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ANSWER 2 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN
L9
    477728-07-7 REGISTRY
RN
    2,5-Pyrrolidinedione, 3-[(phenyl-3-thienylmethyl)sulfinyl]- (9CI) (CA
CN
    INDEX NAME)
FS
    3D CONCORD
MF
    C15 H13 N O3 S2
SR
                 CA, CAPLUS, USPATZ, USPATFULL
    STN Files:
LC
DT.CA CAplus document type: Patent
      Roles from patents: BIOL (Biological study); PREP (Preparation); USES
RL.P
       (Uses)
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN

RN 477728-06-6 REGISTRY

CN 2,5-Pyrrolidinedione, 3-[(di-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C13 H11 N O3 S3

SR CF

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN

RN 477728-05-5 REGISTRY

CN 2,5-Pyrrolidinedione, 3-[[bis(4-fluorophenyl)methyl]sulfinyl]-1-methyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C18 H15 F2 N O3 S

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN

RN 477728-01-1 REGISTRY

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C18 H17 N O3 S

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN

RN 477728-00-0 REGISTRY

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H15 N O3 S

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

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N \\
O \\
S-CHPh_2 \\
\parallel \\
O
\end{array}$$

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

=> d ide can tot 18

L8 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN

RN 477728-04-4 REGISTRY

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-[(1S)-2-hydroxy-1-methylethyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C20 H21 N O4 S

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L8 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN

RN 477728-03-3 REGISTRY

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C19 H19 N O4 S

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L8 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN

RN 477728-02-2 REGISTRY

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-methoxyethyl)-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C20 H21 N O4 S

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L8 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN

RN 35133-13-2 REGISTRY

CN Benzeneacetamide, α -[(2,3-dihydro-2-oxo-1,3-diphenyl-1H-indol-3-yl)thio]-N, α -diphenyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2,3-Dihydro-1,3-diphenyl-2-oxoindol-3-yl diphenyl(phenylcarbamoyl)methyl sulfide

MF C40 H30 N2 O2 S

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 78:16153

REFERENCE 2: 76:51215

=> fil uspatall

FILE 'USPATFULL' ENTERED AT 16:25:42 ON 24 MAY 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 16:25:42 ON 24 MAY 2004 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs hitstr tot 116

L16 ANSWER 1 OF 2 USPATFULL on STN

AN 2002:323168 USPATFULL

TI Substituted thioacetamides

IN Bacon, Edward R., Audubon, PA, UNITED STATES
Chatterjee, Sankar, Wynnewood, PA, UNITED STATES
Dunn, Derek, Coatesville, PA, UNITED STATES
Mallamo, John P., Glenmoore, PA, UNITED STATES
Miller, Matthew S., Newtown, PA, UNITED STATES

Tripathy, Rabindranath, Landenberg, PA, UNITED STATES

Vaught, Jeffry L., Glenmoore, PA, UNITED STATES

PI US 2002183334 A1 20021205

US 6670358 B2 20031230

AI US 2001-14645 A1 20011026 (10)
RLI Continuation-in-part of Ser. No. US 2001-855228, filed on 15 May 2001,

PRAI US 2000-204789P 20000516 (60) US 2001-268283P 20010213 (60)

DT Utility

PENDING

FS APPLICATION

LREP Robert T. Hrubiec, Cephalon, Inc., 145 Brandywine Parkway, West Chester,

PA, 19380

CLMN Number of Claims: 45

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 3556

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to chemical compositions of substituted thioacetamides, processes for the preparation thereof and uses of the compositions in the treatment of diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 477728-00-0P 477728-01-1P 477728-02-2P

477728-03-3P 477728-04-4P 477728-05-5P

477728-06-6P 477728-07-7P 477728-08-8P

(preparation of substituted thioacetamides for treatment of sleep disorders)

RN 477728-00-0 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c} H \\ N \\ O \\ \\ S-CHPh_2 \\ \\ \\ O \end{array}$$

RN 477728-01-1 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)

RN 477728-02-2 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-methoxyethyl)(9CI) (CA INDEX NAME)

RN 477728-03-3 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)(9CI) (CA INDEX NAME)

RN 477728-04-4 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-[(1S)-2-hydroxy-1-methylethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 477728-05-5 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[[bis(4-fluorophenyl)methyl]sulfinyl]-1-methyl(9CI) (CA INDEX NAME)

RN 477728-06-6 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(di-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX

RN 477728-07-7 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(phenyl-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)

RN 477728-08-8 USPATFULL

CN 2,6-Piperidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)

```
L16 ANSWER 2 OF 2 USPAT2 on STN
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AN 2002:323168 USPAT2

TI Substituted thioacetamides

IN Bacon, Edward R., Audubon, PA, United States
Chatterjee, Sankar, Wynnewood, PA, United States
Dunn, Derek, Coatesville, PA, United States
Mallamo, John P., Glenmoore, PA, United States
Miller, Matthew S., Newtown, PA, United States
Tripathy, Rabindranath, Landenberg, PA, United States

Vaught, Jeffry L., Glenmoore, PA, United States

PA Cephalon, Inc., West Chester, PA, United States (U.S. corporation)

PI US 6670358 B2 20031230

AI US 2001-14645 20011026 (10)

RLI Continuation-in-part of Ser. No. US 2001-855228, filed on 15 May 2001,

now patented, Pat. No. US 6492396

PRAI US 2000-204789P 20000516 (60) US 2001-268283P 20010213 (60)

DT Utility FS GRANTED

EXNAM Primary Examiner: Davis, Zinna Northington

LREP Hrubiec, Robert T., Voelk, Eric K.

CLMN Number of Claims: 29 ECL Exemplary Claim: 1

DRWN 2 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 3166

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to chemical compositions of substituted thioacetamides, processes for the preparation thereof and uses of the compositions in the treatment of diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 477728-00-0P 477728-01-1P 477728-02-2P

477728-03-3P 477728-04-4P 477728-05-5P

477728-06-6P 477728-07-7P 477728-08-8P

(preparation of substituted thioacetamides for treatment of sleep disorders)

RN 477728-00-0 USPAT2

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)

RN 477728-01-1 USPAT2

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)

RN 477728-02-2 USPAT2

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-methoxyethyl)-(9CI) (CA INDEX NAME)

RN 477728-03-3 USPAT2

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)(9CI) (CA INDEX NAME)

RN 477728-04-4 USPAT2

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-[(1S)-2-hydroxy-1-methylethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 477728-05-5 USPAT2

CN 2,5-Pyrrolidinedione, 3-[[bis(4-fluorophenyl)methyl]sulfinyl]-1-methyl-(9CI) (CA INDEX NAME)

RN 477728-06-6 USPAT2

CN 2,5-Pyrrolidinedione, 3-[(di-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)

RN 477728-07-7 USPAT2
CN 2,5-Pyrrolidinedione, 3-[(phenyl-3-thienylmethyl)sulfinyl]- (9CI) (CA

RN 477728-08-8 USPAT2 CN 2,6-Piperidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)

=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 16:25:57 ON 24 MAY 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 24 May 2004 VOL 140 ISS 22 FILE LAST UPDATED: 23 May 2004 (20040523/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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US 2001-855228

MARPAT 138:14055

US 2001-14645

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L12 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
AN
     2002:928245 HCAPLUS
DN
     138:14055
ED
     Entered STN: 06 Dec 2002
     Preparation of substituted thioacetamides for treatment of sleep disorders
TI
     Bacon, Edward R.; Chatterjee, Sankar; Dunn, Derek; Mallamo, John P.;
     Miller, Matthew S.; Tripathy, Rabindranath; Vaught, Jeffry L.
PA
     Cephalon, Inc., USA
SO
     U.S. Pat. Appl. Publ., 52 pp., Cont.-in-part of U.S. Ser. No. 855,228.
     CODEN: USXXCO
DT
     Patent
     English
LΑ
IC
     ICM A61K031-505
     ICS A61K031-277; C07C317-26
     514256000; 514385000; 514521000; 514599000; 514539000; 514618000;
     544242000; 548354100; 558413000; 564162000
     28-7 (Heterocyclic Compounds (More Than One Hetero Atom))
     Section cross-reference(s): 1, 23, 63
FAN.CNT 2
     PATENT NO.
                        KIND DATE
                                               APPLICATION NO.
                                                                 DATE
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PI
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                        A1
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                                               US 2001-14645
                                                                 20011026
     US 6670358
                         B2
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                              20020418
                                              US 2001-855228
                                                                 20010515
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                         В2
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     WO 2003037853
                        Α1
                              20030508
                                              WO 2002-US34188 20021025
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              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
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              UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
              TJ, TM
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              PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
              NE, SN, TD, TG
PRAI US 2000-204789P
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                        Р
     US 2001-268283P
                         Р
                              20010213
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20010515

20011026

A2

Α

AB Title compds. I [Ar1-2 = (hetero)aryl; Y = alkylene, alkyl, (hetero)arylene, cycloalkylene, O, SOO-2, etc.; R3-4 = H, alkyl, OH, etc.;

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374721-36-5P

m, n = 0-3; q = 0-2] were prepared For instance, thiourea and 9-hydroxyfluorene were reacted (HBraq, 100-105°, 30 min) to afford the corresponding thiouronium salt. This was treated with NaOHaq and 3-bromopropionic acid to afford the sulfide-carboxylic acid and subsequently treated with SOC12/NH4OH to give II. Selected example compds. possessed wake-promoting activity (rats). I are useful in the treatment of sleep disorders, Parkinson's disease, etc. thioacetamide sleep amide sulfide prepn Mental disorder (attention deficit hyperactivity disorder; preparation of substituted thioacetamides for treatment of sleep disorders) Brain (cerebral cortex, hypofunctionality, disorders associated with; preparation substituted thioacetamides for treatment of sleep disorders) Fatigue, biological (chronic fatigue syndrome; preparation of substituted thioacetamides for treatment of sleep disorders) Mental disorder (cognitive; preparation of substituted thioacetamides for treatment of sleep disorders) Mental disorder (depression; preparation of substituted thioacetamides for treatment of sleep disorders) Appetite Cognition (disorder; preparation of substituted thioacetamides for treatment of sleep disorders) Brain, disease (ischemia; preparation of substituted thioacetamides for treatment of sleep disorders) Antidepressants Antiparkinsonian agents Fatigue, biological Human Parkinson's disease Schizophrenia (preparation of substituted thioacetamides for treatment of sleep disorders) Apnea (sleep apnea; preparation of substituted thioacetamides for treatment of sleep disorders) Mental activity (sleepiness; preparation of substituted thioacetamides for treatment of sleep disorders) Brain, disease (stroke; preparation of substituted thioacetamides for treatment of sleep disorders) Body weight (weight gain; preparation of substituted thioacetamides for treatment of sleep disorders) 374722-01-7P 374722-02-8P 374722-05-1P 374722-06-2P 374722-07-3P 374722-08-4P 374722-09-5P 374722-13-1P 374722-14-2P RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of substituted thioacetamides for treatment of sleep disorders) 374721-10-5P 374721-09-2P 374721-11-6P 374721-12-7P 374721-13-8P 374721-14-9P 374721-15-0P 374721-16-1P 374721-17-2P 374721-18-3P 374721-19-4P 374721-20-7P 374721-21-8P 374721-22-9P 374721-23-0P 374721-24-1P 374721-25-2P 374721-26-3P 374721-27-4P 374721-28-5P 374721-29-6P 374721-30-9P 374721-31-0P 374721-33-2P 374721-35-4P

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374721-39-8P

374721-40-1P

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                                                                  477728-18-0P
     477733-03-2P
                    477733-04-3P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
        (preparation of substituted thioacetamides for treatment of sleep disorders)
IT
     62-56-6, Thiourea, reactions 79-11-8, Chloroacetic acid, reactions
     100-52-7, Benzaldehyde, reactions
                                        107-10-8, n-Propylamine, reactions
     108-31-6, Maleic anhydride, reactions 109-85-3, 2-Methoxyethylamine
     110-91-8, Morpholine, reactions
                                      131-11-3, Dimethylphthalate
                                541-59-3, Maleimide
     3-Thiophenecarboxaldehyde
                                                       590-92-1,
     3-Bromopropionic acid
                            872-31-1, 3-Bromothiophene
                                                           879-52-7
                                                                      930-88-1.
     N-Methylmaleimide
                         1131-62-0
                                    1210-34-0, Dibenzosuberol
                                                                1689-64-1,
     9-Hydroxyfluorene
                         2365-48-2, Methyl thioglycolate
                                                           2623-87-2,
     4-Bromobutyric acid
                           2749-11-3, (S)-2-Aminopropanol
                                                            7324-05-2
     (L)-Alanineamide
                        62595-74-8
                                     77868-83-8, 3-Bromo-1-phenylpyrrolidin-2-
           374721-98-9
                         477728-24-8
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of substituted thioacetamides for treatment of sleep disorders)
IT
     19552-08-0P, 9H-Fluorene-9-thiol
                                        31936-92-2P
                                                      64850-75-5P
                                                                     79364-17-3P
     93001-83-3P
                   222626-23-5P
                                  222626-25-7P
                                                 374721-95-6P
                                                                 374721-96-7P
     374721-97-8P
                    374722-04-0P
                                   374722-10-8P
                                                  374722-11-9P
                                                                  374722-12-0P
     374722-15-3P
                    477728-19-1P
                                   477728-20-4P
                                                  477728-21-5P
                                                                  477728-22-6P
     477728-23-7P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation of substituted thioacetamides for treatment of sleep disorders)
IT
     477728-00-0P 477728-01-1P 477728-02-2P
     477728-03-3P 477728-04-4P 477728-05-5P
     477728-06-6P 477728-07-7P 477728-08-8P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (preparation of substituted thioacetamides for treatment of sleep disorders)
RN
     477728-00-0 HCAPLUS
CN
     2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)
```

RN

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)

RN 477728-02-2 HCAPLUS

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-methoxyethyl)-(9CI) (CA INDEX NAME)

RN 477728-03-3 HCAPLUS

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)-(9CI) (CA INDEX NAME)

RN 477728-04-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-[(1S)-2-hydroxy-1-methylethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 477728-05-5 HCAPLUS

CN 2,5-Pyrrolidinedione, 3-[[bis(4-fluorophenyl)methyl]sulfinyl]-1-methyl-(9CI) (CA INDEX NAME)

RN 477728-06-6 HCAPLUS

CN 2,5-Pyrrolidinedione, 3-[(di-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)

RN 477728-07-7 HCAPLUS

CN 2,5-Pyrrolidinedione, 3-[(phenyl-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)

RN 477728-08-8 HCAPLUS

CN 2,6-Piperidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)

=> d l13 all hitstr tot

L13ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

1973:16153 HCAPLUS AN

DN 78:16153

ED Entered STN: 12 May 1984

Reactions of sulfur diimides with ketenes TI

Minami, Toru; Yamataka, Kazunori; Ohshiro, Yoshiki; Agawa, Toshio; AU Yasuoka, Noritake; Kasai, Nobutami

CS Fac. Eng., Osaka Univ., Suita, Japan

SO Journal of Organic Chemistry (1972), 37(24), 3810-18 CODEN: JOCEAH; ISSN: 0022-3263

DTJournal

LA English

CC 28-24 (Heterocyclic Compounds (More Than One Hetero Atom))

OS CASREACT 78:16153

AB Addnl. data considered in abstracting and indexing are available from a source cited in the original document. The reaction products of sulfur diimides with Ph2C:CO are temperature-dependent. The reaction of (PhN:)2S with Ph2C:CO at 6 - 8° gave the 1:2-cycloadduct, 2,3,4,6,7-pentahydro-2,4,4,7-tetraphenyl-3-oxo-1,-5,2,7-thiaoxadiazepin-6-ylidene diphenyl methane (I) and at 80° the 1:1-cycloadduct 2,4,4,5-tetraphenyl-1,2,5-thiadiazolidin-3-one (II). Refluxing I in C6H6 led to II and Ph2C:CO. (Me3CN:)2S and Ph2C:CO at 0 - 2° gave a 1,2-cycloadduct, 4,4-diphenyl-1-t-butylimino-2-t-butyl-1,2-thiazetidin-3-one which readily underwent a rearrangement to 4,4-diphenyl-2,5-di-t-butyl-1,2,5thiadiazolidin-3-one. The reaction of sulfur diimides with alkylketenes gave no 1,2- or 1,3-cycloadducts but the thiobisamine derivs. or their hydrolysis products. The reaction between (PhN:)2S and Me2C:CO gave rise to 2-phenylimino-3,3-dimethyl-1H-2,1-benzothiazine-4(3H)-one in addition to N, N'-diphenyl, -N-(2-methylpropenoyl), -N'-isobutanoyl thiobisamine. ST thiaoxadiazepine; thiadiazolidinone; thiazetidinone; cycloaddn ketene

sulfur diimide; amine thiobis; thiobisamine

IT2056-74-8 3839-89-2

RL: RCT (Reactant); RACT (Reactant or reagent) (adduct of, with ketene)

IT525-06-4 598-26-5 20452-67-9 22589-13-5 RL: RCT (Reactant); RACT (Reactant or reagent)

(adduct of; with sulfur diimide)

```
IT
     1611-83-2P
                  2719-26-8P
                               4406-41-1P
                                            6554-73-0P
                                                        7472-49-3P
     10572-61-9P
                   13616-67-6P
                                 19155-24-9P
                                               23210-25-5P
                                                              29376-74-7P
     32119-42-9P 35133-13-2P
                               36138-85-9P
                                             36138-86-0P
                                 36146-78-8P
     36138-87-1P
                   36138-88-2P
                                                36146-81-3P
                                                              36146-93-7P
     36146-94-8P
                   36146-96-0P
                                 36146-97-1P
                                                36146-98-2P
                                                              36147-00-9P
     36147-01-0P
                   36147-03-2P
                                 36147-04-3P
                                                36147-05-4P
                                                              36147-06-5P
     36147-10-1P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
IT
     35133-13-2P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
RN
     35133-13-2 HCAPLUS
CN
     Benzeneacetamide, α-[(2,3-dihydro-2-oxo-1,3-diphenyl-1H-indol-3-
     yl)thio]-N,\alpha-diphenyl- (9CI) (CA INDEX NAME)
```

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ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
L13
AΝ
     1972:51215 HCAPLUS
DN
     76:51215
     Entered STN: 12 May 1984
ED
TI
     Molecular structure of one of the 1:2 adducts from diphenylsulfur diimide
     and diphenylketene
ΑU
     Kai, Yasushi; Yasuoka, Noritake; Kasai, Nobutami; Minami, Toru; Yamataka,
     Kazunori; Ohshiro, Yoshiki; Agawa, Toshio
CS
     Dep. Appl. Chem., Osaka Univ., Osaka, Japan
SO
     Journal of the Chemical Society [Section] D: Chemical Communications
     (1971), (23), 1532
     CODEN: CCJDAO; ISSN: 0577-6171
DT
     Journal
LΑ
     English
CC
     70 (Crystallization and Crystal Structure)
AB
     X-ray anal. of the title adduct showed it to be 2,3-dihydro-1,3-diphenyl-2-
     oxoindol-3-yl diphenyl(phenylcarbamoyl)methyl sulfide; crystals were
     monoclinic, with space group P21/a, a 22.206, b 11.907, c 12.027 Å,
     \beta 100.50°, d. (exptl.) 1.26, d. (calculated) 1.28, Z=4, and R
     0.056 for 3030 reflections.
ST
     ketenes adduct diphenylsulfur diimide; indolyl methyl sulfide crystal
     structure; sulfur diimide diphenyl ketenes
IT
     Crystal structure
     Molecular structure
        (of dihydrodiphenyloxoindolyl diphenyl(phenylcarbamoyl) methyl sulfide)
IT
     35133-13-2
     RL: PRP (Properties)
        (crystal structure of)
IT
     35133-13-2
     RL: PRP (Properties),
        (crystal structure of)
RN
     35133-13-2 HCAPLUS
CN
     Benzeneacetamide, α-[(2,3-dihydro-2-oxo-1,3-diphenyl-1H-indol-3-
     yl)thio]-N,\alpha-diphenyl- (9CI) (CA INDEX NAME)
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